

Choosing the right journal for your next research paper

Department of Chemistry
Graduate Students Lunch and Learn
22 February 2017

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University Library System
University of Pittsburgh

What are your career ambitions?

- ❖ become an academic researcher
 - ❖ secure a post-doc position
 - ❖ get research / tenure track job in a prestigious institution
 - ❖ be promoted and / or get tenure
- ❖ get a research job in a corporation
- ❖ join / launch a start up company

Publications (and external funding): critical for academic success

- ❖ to claim priority of discovery
 - ❖ to make your work known
 - ❖ to get feedback from your community of peers
 - ❖ to inform / participate in debate within your community
 - ❖ to get / keep job
- 97% of chemistry research is published in journals!

What to consider when selecting journal

- ❖ Subject fit
- ❖ Manuscript characteristics
- ❖ Audiences and reach
- ❖ Prestige (citation rates and acceptance rates)
- ❖ Editorial board and practices
- ❖ Open access?
- ❖ Speed of process

Subject fit

- ❖ Indexing services
 - ❖ Web of Science and Journal Citation Reports
 - ❖ SCOPUS and Journal Metrics
- ❖ Semantic matching services
 - ❖ Journal Guide <https://www.journalguide.com/>
 - ❖ Journal Finder <http://journalfinder.elsevier.com/> (Elsevier titles only)

Manuscript characteristics

- ❖ Research type: applied, basic, clinical (clue often in jln title)
- ❖ Document type: review, theorem, case study (review last few issues)

Audiences

- ❖ Academic colleagues in my discipline
- ❖ Academic colleagues in other disciplines (inter- and multi-disciplinarity)
- ❖ Practitioner audiences (industry)
- ❖ General public (educational, enlightenment, public debate)
- ❖ Geographic reach (open?)

Prestige 1

- Journal Citation Reports (access via library page, under "Databases")
- Based on journals indexed in Web of Science
- around 9k titles in sciences and social sciences
- robust subject classification, based on citation relationships within journals

- includes title with robust per review policies only
- widely used as proxy for quality

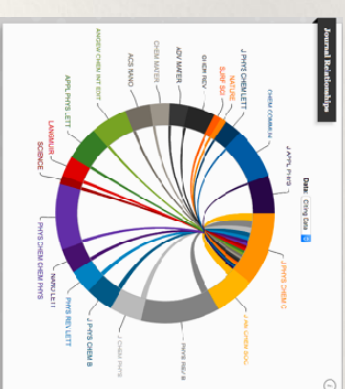
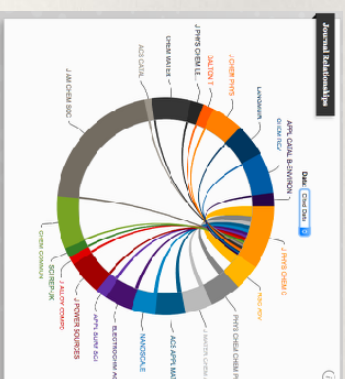
backlash - DORA

Let's look at JOURN

Journal Impact Factor

JCR Impact Factor									
Year	CIE WESTERN PHYSICAL			NANOSCIENCE & NANOTECHNOLOGY			MATERIALS		
	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile
2010	30144	Q1	79.514	2439	Q2	74.093	405	Q2	74.093
2011	29130	Q1	79.468	2170	Q2	74.375	305	Q2	74.375
2012	28130	Q1	79.044	1573	Q2	74.825	205	Q2	74.825
2013	26130	Q1	78.020	1639	Q2	73.183	270	Q2	73.183
2014	26134	Q1	80.970	1736	Q2	73.020	230	Q2	73.020
2015	27127	Q1	79.134	1434	Q1	75.078	205	Q1	75.078
2016	22121	Q1	82.231	1439	Q1	77.119	225	Q1	77.119
2017	20173	Q1	70.664	1232	Q1	77.059	201	Q1	77.059
2018	11111	Q4	0.450	4327	Q4	5.574	760	Q4	5.574

Key Indicators									
Year	Journal Impact Factor			5 Year Impact Factor			Citing Article		
	Value	Rank	Percentile	Value	Rank	Percentile	Value	Rank	Percentile
2019	122.494	1,396	4.322	4.616	6,629	3.288	4.7	7.1	0.8413
2018	116.664	1,404	4.322	4.516	6,629	3.288	4.7	7.1	0.8413
2017	106.664	1,404	4.322	4.516	6,629	3.288	4.7	7.1	0.8413
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2009	106.664	1,404	4.322	4.516	6,629	3.288	4.7	7.1	0.8413
2008	106.664	1,404	4.322	4.516	6,629	3.288	4.7	7.1	0.8413
2007	106.664	1,404	4.322	4.516	6,629	3.288	4.7	7.1	0.8413



Prestige 2

- ❖ Journal Metrics (<https://journalmetrics.com>)
- ❖ based on Elsevier's SCOPUS data
- ❖ over 22k titles in sciences, social sciences, arts and humanities
- ❖ less selection bias
- ❖ Let's look at the Journal of Physical Chemistry C

Journal of Physical Chemistry C

Scopus coverage years: from 2007 to 2016

Publisher: American Chemical Society

ISSN: 1095-7047 E-ISSN: 1095-7055

Subject area: Materials Science: Surfaces, Coatings and Films

Energy

Materials Science: Electronic, Optical and Magnetic Materials

Chemistry: Physical and Theoretical Chemistry

Set document alert

Journal homepage

View full catalog

Energy collection

View Scopus Journal Metrics

CiteScore 2015

4.68

SJR 2015

1.995

from 2007

1.234

CiteScore rank & trend

Scopus content coverage

CiteScore 2015

Citation Count 2015

4.68

46584 Citations

46584 Citations

9954 Documents

Calculated on 11 May 2016

CiteScore rank

in category: Physical and Theoretical Chemistry

99th percentile

Score: 4.68/4.93

View CiteScore trends

Refine by subject area...

Search title...

Journal of Physical Chemistry C

2015

Show more filters

Showing 1 titles

Journal of Physical Chemistry C

Surfaces, Coatings and Films

4.68

94%

6799

46,384

9,954

88%

1,234


1,995

Clear filters

CiteScore metrics calculated on: 11 May, 2016. SN, P and SJR calculated on 27 April, 2016

Beware of predatory journals

- ❖ Think Check Submit
- ❖ Do you or your colleagues know the journal?
- ❖ – Have you read any articles in the journal before?
- ❖ – Is it easy to discover the latest papers in the journal?
- ❖ Can you easily identify and contact the publisher?
- ❖ – Is the publisher name clearly displayed on the journal website?
- ❖ – Can you contact the publisher by telephone, email, and post?
- ❖ Is the journal clear about the type of peer review it uses?
- ❖ Are articles indexed in services that you use?
- ❖ Is it clear what fees will be charged?
- ❖ – Does the journal site explain what these fees are for and when they will be charged?
- ❖ Do you recognise the editorial board?
- ❖ – Have you heard of the editorial board members?
- ❖ – Do the editorial board mention the journal on their own websites?
- ❖ Is the publisher a member of a recognized industry initiative?
- ❖ – Do they belong to the Committee on Publication Ethics (COPE) ?
- ❖ – If the journal is open access, is it listed in the Directory of Open Access Journals (DOAJ)



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The 3rd International Conference on Materials Science and Engineering (ICME 2016)
 December 2 to 4, 2016, Suva
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 December 2 to 4, 2016, Suva
 -- Learn more about this conference

Publications

Journals


- Studies in Surveying and Mapping Science
- Studies in System Science
- Global Perspectives on Geography
- Studies in Chemical Process Technology
- Communications in Civil Science and Engineering
- International Journal of Power and Renewable Energy Systems

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Journal of Nanomaterials
 Volume 2014 (2014)
 160 pages, 100 illustrations
 ISBN 978-1-118-78111-2
 \$120.00
 Wiley

- fees)

[illegible]

other considerations

- ❖ Speed of process (from submission to editorial decision to peer review completion to publication)
- ❖ What about data?
- ❖ Copyright
- ❖ Marketing efforts on your behalf
- ❖ Impact tracking

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 Article published in *Primates* SpringerLink

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João Pedro Ferreira (unreadable) · 5h
 My work has just been published on springerlink

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Cogent Chemistry
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<https://doi.org/10.1080/21502643.2016.1241111>
 04 Nov 2016

PLOS ONE
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Impact of Water Chemistry, Pipe Material and Stagnation on the Building Plumbing Microbiome
 Paul J. Jeffrey Pines, David A. Edwards, Amy Hughes
 Published: October 28, 2015 · <https://doi.org/10.1371/journal.pone.0141367>

48 ARTICLES	7 CITATIONS
614 WORDS	13 SLIDES

cogent -- chemistry
 Research Article
Molecular dynamics simulations in drug delivery research: Calcium chelation of G3.5 PAMAM dendrimers
 Authors: Elise J. H. (unreadable) | Jonathan Goodwin | John C. Evers
 Published: 2 September 2016 · <https://doi.org/10.1080/21502643.2016.1229280>

Abstract:
 Poly(amido amine) (PAMAM) dendrimers have been considered as possible delivery systems for anticancer drugs. One potential advantage of these carriers would be their use as oral formulations, which will require absorption in the intestinal lumen. This may require the opening of tight junctions which may be achieved by the use of calcium chelators. In order to investigate this hypothesis, we have performed molecular dynamics simulations of G3.5 PAMAM dendrimers in water, showing that the use of calcium chelators could lead to the opening of tight junctions. Using molecular dynamics simulations, we show that the G3.5 PAMAM dendrimers are able to release Ca²⁺ at similar proportions to 100 nM, providing support to the hypothesis that oral formulations of PAMAM dendrimers could use this high chelating efficiency as a potential mechanism for permeating the tight junctions of the intestines if other formation barriers could be overcome.

Keywords: Calcium chelation, PAMAM dendrimers, MD simulation, nanomedicine

Supplementary material

Molecular dynamics simulations in drug delivery research: Calcium chelation of G3.5 PAMAM dendrimers

63 WORDS	0 ARTICLES	7 CITATIONS
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